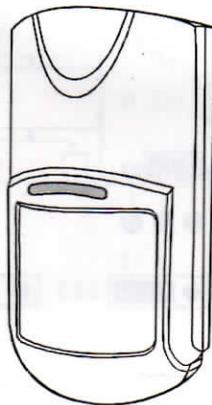


PRODUCT INTRODUCTION

This product is microwave and passive infrared compound type intelligent dual-tech intruder detector, which adopts microwave Doppler effect, spectral analysis and dynamic threshold adjustment technique. It will make accurate alarm on human movement by intelligence analyzing, calculating the far-infrared spectrum and the Doppler frequency shift produced by human body. Adopting comprehensive technology "Microwave+Infrared+MCU", the detector is more stable and more effective to prevent false alarms. It is suitable for security protection in residential houses, villas, factories, shopping centers, warehouses, office buildings, etc.

PRODUCT PROFILE



TECHNICAL SPECIFICATION

Operating voltage: DC12V
 Current consumption: $\leq 25\text{mA}$
 Detecting distance: 12m
 Detecting speed: 0.3m/s-3m/s
 Detecting angle: 90°
 Self-testing time: 60s
 Alarm time: 3s/30s optional
 Alarm indication: red LED
 Sensor: dual pyroelectric infrared sensor
 Microwave antenna type: plane antenna with high frequency oscillator GaAs :FET
 Microwave frequency: 10.525GHz
 Operating temperature: -10 °C ~ +50 °C
 Environment humidity: Maximum 95 % RH (no congelation)
 Installation method: Wall mounted
 Installation height: 1.7-2.5m (installation height of 2 meters is suggested)
 Alarm output: NC/NO optional, contact DC28V 100mA
 Tamper output: NC, contact DC28V 100mA
 Execute criterion: GB10408.1; GB10408.6
 Dimension: 123*62*46mm

MAIN FEATURES

- Adopts Doppler effect+spectral analysis
- Using artificial intelligence technology to identify intruders and disturbance signals
- Microwave adopts X-Band plane antenna
- Dual temperature compensation
- Dynamic threshold adjustment technique
- Bipolar pulse count adjustable
- Anti white light interference
- Anti RF interference
- Fresnel lens
- Alarm output NC/NO optional
- Alarm time optional (3s/30s)
- Design has passed patent application
- SMT technology manufacture, more stable

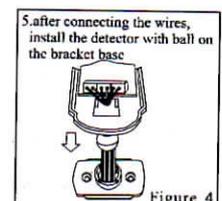
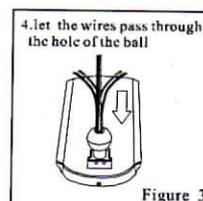
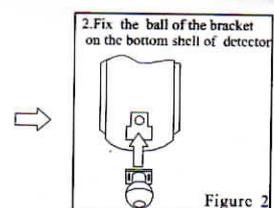
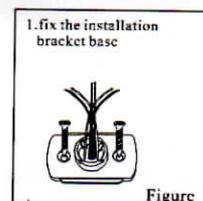
INSTALLATION

1. Please avoid installation out of doors, place with cat, near to air-conditioner, heat source, place with direct sunlight, and place under rotating objects.
2. Installation surface should be firm without vibration.
3. Install the detector in places where an intruder may pass easily.

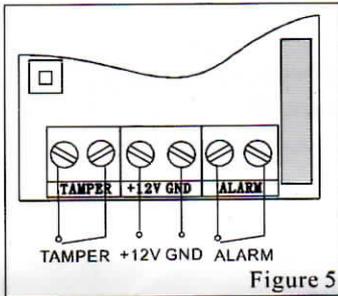
INSTALLATION STEPS

1. Choose a suitable place to fix the detector's bracket base on the wall, and let the reserved power line and signal line pass through the middle hole of the bracket base. See installation diagram in Figure 1:
2. Fix the ball of the bracket on the bottom shell of the detector. See Figure 2:
3. Open the detector cover, let the power line and signal line pass through the hole of the ball. See Figure 3:
4. Connect the wires according to the wiring diagram (see Figure 5), then install the ball on the bracket base. See Figure 4:
5. Install the front cover of detector, adjust the installation angle according to the needs.

INSTALLATION DIAGRAM



WIRING DIAGRAM



TAMPER TEMPER OUTPUT PORT
 +12V DC ANODE
 GND DC CATHODE
 ALARM ALARM OUTPUT PORT

OPERATION INSTRUCTION

1. Jumper function Setting

1) PULSE jumper: pulse adjust jumper, can adjust detector sensitivity and the ability of anti RF interference by adjusting pulse count
 choose 1&2: class 1 pulse, with higher detection sensitivity and better anti-RF interference ability, suitable for the general environment;
 choose 2&3: class 2 pulse, with lower detection sensitivity but stronger anti-RF interference ability, suitable for environment with serious RF interference.

Factory default setting: 1 & 2 1P(class 1 pulse)

2)RELAY jumper: choose NO or NC to set the alarm output state according to different requirement of the alarm host.

Choose 1 & 2: N.O. (normally open state);

Option 2 & 3: N.C. (normally close);

Factory default setting: 2 & 3 N.C.

3)DELAY jumper, used to set the lasting time of relay and alarm indicator when alarming, can choose according to needs,

Choose 1 & 2: delay 3S

Option 2 & 3: delay 30S

Factory default setting: 1 & 2, delay 3S

4)LED jumper: used to control LED indicator. This function will not influence the normal work of detector. In order to provide better concealment, the LED indicator can be shut off after test by pulling out the LED jumpers.

2. LED indicator

Yellow LED - microwave was triggered

Green LED - infrared was triggered

Red LED -alarm

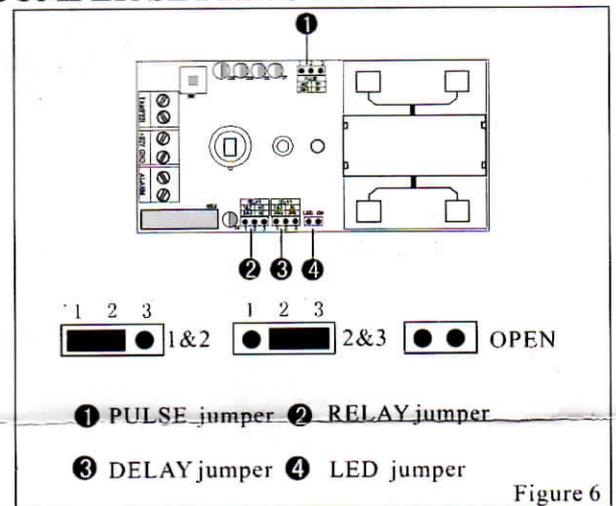
3. Product test

Connecting DC12V power supply, red and green LED indicator flashes alternately, the detector goes into self testing state and this will last for about 60s. When the LED indicator is off, it means detector enters into normal working state. The tester should walk within the detection range in parallel with the wall where the detector is installed. When the red LED indicator is ON, it shows detector enters into alarm state.

NOTICE

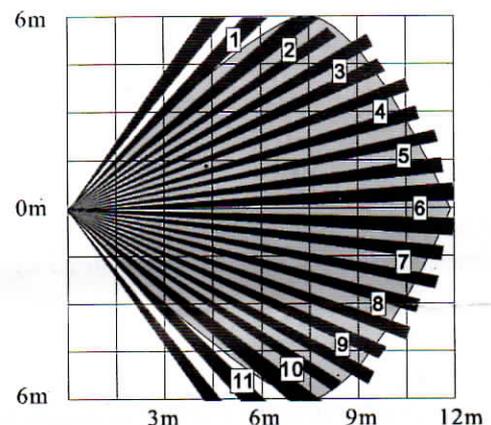
- 1, The detector should be installed and used properly according to Manual. If meet with detector malfunction, please contact with the manage department or our after-sale service center for maintenance.
- 2, The detector can decrease the rate of the accident but can not assure no risk at all. For safety concern, besides proper usage of the detector, please enhance vigilance in daily life and take good protection.
- 3, Constant power supply should be provided to ensure normal working of the detector. Walking test should be carried out periodically. Once a week is recommended.

JUMPER SETTING FIGURE

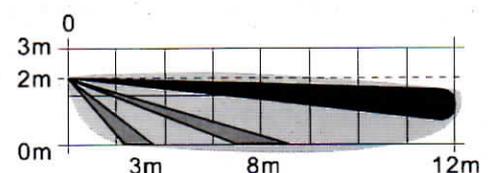


DETECTING AREA VIEW

■ microwave ■ passive infrared



Plan View



Side View